

#6915 Store at -20C

**Miwi (D92B7) XP® Rabbit mAb****Cell Signaling**  
TECHNOLOGY®**Orders:** 877-616-CELL (2355)  
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**For Research Use Only. Not for Use in Diagnostic Procedures.**

| Applications:       | Reactivity: | Sensitivity: | MW (kDa): | Source/Isotype: | UniProt ID: | Entrez-Gene Id: |
|---------------------|-------------|--------------|-----------|-----------------|-------------|-----------------|
| WB, IP, IHC-P, IF-F | H M         | Endogenous   | 90        | Rabbit IgG      | #Q9JMB7     | 57749           |

**Product Usage Information****Application**

Western Blotting

Immunoprecipitation

Immunohistochemistry (Paraffin)

Immunofluorescence (Frozen)

**Dilution**

1:1000

1:50

1:800 - 1:3200

1:800

**Storage**

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.

**Specificity / Sensitivity**

Miwi (D92B7) XP® Rabbit mAb recognizes endogenous levels of total Miwi protein. Non-specific staining was observed in a subset of mouse immune cells by immunohistochemistry.

**Species predicted to react based on 100% sequence homology:**

Human, Rat

**Source / Purification**

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Gly81 of mouse Miwi protein.

**Background**

The *Drosophila* piwi gene was identified as being required for the self-renewal of germline stem cells (1). Piwi homologs are well conserved among various species including *Arabidopsis*, *C. elegans*, and *Homo sapiens* (1). Both Miwi and Mili proteins are mouse homologs of Piwi and contain a C-terminal Piwi domain (2). Miwi and Mili bind to Piwi-interacting RNAs (piRNAs) in male germ cells and are essential for spermatogenesis in mice (3-5).

**Background References**

1. Cox, D.N. et al. (1998) *Genes Dev* 12, 3715-27.
2. Kuramochi-Miyagawa, S. et al. (2001) *Mech Dev* 108, 121-33.
3. Aravin, A. et al. (2006) *Nature* 442, 203-7.
4. Grivna, S.T. et al. (2006) *Proc Natl Acad Sci USA* 103, 13415-20.
5. Grivna, S.T. et al. (2006) *Genes Dev* 20, 1709-14.

**Species Reactivity**

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

**Western Blot Buffer**

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

**Applications Key****WB:** Western Blotting **IP:** Immunoprecipitation **IHC-P:** Immunohistochemistry (Paraffin)  
**IF-F:** Immunofluorescence (Frozen)**Cross-Reactivity Key****H:** human **M:** mouse **R:** rat **Hm:** hamster **Mk:** monkey **Vir:** virus **Mi:** mink **C:** chicken **Dm:** D. melanogaster  
**X:** Xenopus **Z:** zebrafish **B:** bovine **Dg:** dog **Pg:** pig **Sc:** S. cerevisiae **Ce:** C. elegans **Hr:** horse  
**GP:** Guinea Pig **Rab:** rabbit **All:** all species expected**Trademarks and Patents**

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